

Study of an integrated method about data processing and the prospecting for ore deposit by applying electro -geochemical method

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Electro-geochemistry is a method for collecting dynamic ions by placing appropriately prepared electrodes in the effective soil area and applying an electrical current. By analyzing substances on receiver, the results have showed that geo-electrochemical anomalies may be connected with ore bodies, for finding concealed deposits. However, this method is featured with different forming elements, a mountain of sampling sites, large scale mineralization, wide distribution and complex storage conditions, which overcome conventional processing methods. In the light of the relationship between major ore-forming elements and accompaniment element, the comprehensive method of processing data have been found by applying geostatistics methods (including data standardization, histogram diagram and etc). Calculate this background value twice and then select proper geochemical indicators. By comparison analysis, the results of this method are more intuitive, clearer and more effective over known ore bodies. The applying of this method has also its distinct advantages in unknown district.